Fungicide
A seed treatment product for protection against damage from listed diseases on cereals.

Active Ingredients:
- Difenoconazole\(^1\) ........................................ 3.53%
- Fludioxonil\(^2\) ............................................... 0.37%
- Mefenoxam\(^3\) ................................................ 1.10%
- Sedaxane\(^4\) .................................................. 0.74%

Other Ingredients: 94.26%

Total: 100.00%

\(^1\)CAS No. 119446-68-3
\(^2\)CAS No. 131341-86-1
\(^3\)CAS No. 70630-17-0 and 69516-34-3
\(^4\)CAS No. 874967-67-6

Vibrance® Flexi is a flowable concentrate for seed treatment containing 0.33 lb Difenoconazole, 0.03 lb Fludioxonil, 0.10 lb Mefenoxam, and 0.07 lb Sedaxane per gallon.

KEEP OUT OF REACH OF CHILDREN
CAUTION

See inside booklet for additional precautionary statements and complete directions for use.

EPA Reg. No. 100-1588
SCP 1588A-L1 0816
4070348
FIRST AID
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOT LINE NUMBER
For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

CAUTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)
Applicators and other handlers must wear:
• Long-sleeved shirt and long pants
• Chemical-resistant gloves made of any waterproof material: barrier laminate, butyl rubber ≥14 mils, natural rubber ≥14 mils, neoprene rubber ≥14 mils, nitrile rubber ≥14 mils, polyethylene, polyvinyl chloride (PVC) ≥14 mils, or Viton® ≥14 mils
• Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS
When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS
Users should:
• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
• Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Remove and wash contaminated clothing before reuse.

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ENVIRONMENTAL HAZARDS
This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not contaminate bodies of water when disposing of equipment rinsate or washwaters.

Groundwater Advisory
Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of label use. Fludioxonil has properties and characteristics associated with chemicals detected in groundwater. These chemicals may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Use is permitted on-farm and in commercial seed treatment facilities. Do not use for at-plant applications (e.g. hopper box, planter box, etc.). This product is to be applied as a water-based slurry through standard slurry- or mist-type commercial seed treatment equipment.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours. Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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AGRICULTURAL USE REQUIREMENTS (continued)

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material: barrier laminate, butyl rubber ≥14 mils, natural rubber ≥14 mils, neoprene rubber ≥14 mils, nitrile rubber ≥14 mils, polyethylene, polyvinyl chloride (PVC) ≥14 mils, or Viton® ≥14 mils
- Shoes plus socks

Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Treat a quantity of seed using equipment similar to that planned for treating the total seed lot. Prior to treatment, conduct germination tests on a portion of seed before committing the total seed lot to a selected seed treatment.

Due to seed quality, crop or variety sensitivity, and seed storage conditions beyond the control of Syngenta, no claims are made to guarantee the germination of carry-over seed or propagating material for all crop seed when treated with Vibrance Flexi.

PRODUCT INFORMATION

Vibrance Flexi is a broad-spectrum seed treatment fungicide containing four active ingredients: Difenoconazole, Fludioxonil, Mefenoxam and Sedaxane. Vibrance Flexi protects against damage from listed seed-borne and seedling diseases of Cereals. All these active ingredients have a different mode of action against fungal pathogens.

Difenoconazole is active against several seed, seedling and certain foliar diseases including bunts and smuts on Cereals.

Fludioxonil is active against Fusarium species and Rhizoctonia species as well as weakly pathogenic fungi such as Aspergillus and Penicillium species in Cereals.

Mefenoxam is active against Pythium species causing damping-off and seed rot in Cereals.

Sedaxane is active against seed decay, seedling blight and damping-off caused by Rhizoctonia species and loose smuts caused by Ustilago species in Cereals.
Vibrance Flexi contains difenoconazole, a Group 3 fungicide; mefenoxam, a Group 4 fungicide; sedaxane, a Group 7 fungicide; and fludioxonil, a Group 12 fungicide. Difenoconazole belongs to the triazole class of chemistry and is a demethylation inhibitor of sterol biosynthesis (DMI) which disrupts membrane synthesis of the fungal cell. Mefenoxam belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis. Sedaxane is a succinate dehydrogenase inhibitor (SDHI) and belongs to the carboxamide class of chemistry which disrupts cellular respiration and energy generation. Fludioxonil belongs to the phenylpyrrole class of chemistry which interferes with osmotic signal transduction.

Fungal populations may contain individuals naturally resistant to Group 3, 4, 7 or 12 fungicides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies such as alternation with fungicides with a different mode of action and/or tank mixes established for the crop and use area.

Use should be based on an IPM program that includes field sanitation, scouting, historical information related to pesticide use, and crop rotation. The IPM program should also consider cultural, biological, and other chemical control practices.

Syngenta encourages responsible product stewardship to ensure effective long term control of the fungal diseases on this label.

For additional information on Fungicide Resistance Management:
- Contact Syngenta representatives at 1-800-334-9481.
- Contact your local extension specialist or certified crop advisor.
- Visit the Fungicide Resistance Action Committee (FRAC) on the web at: http://www.frac.info.

**MIXING PROCEDURES**

**Important:** Always re-circulate Vibrance Flexi thoroughly before using.

Follow the manufacturer’s application instructions for the seed treatment equipment being used.

Apply Vibrance Flexi as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the specified amount of Vibrance Flexi into the required amount of water or liquid inoculant for the slurry treater and dilution rate to be used.
Certain crops require addition of inoculants when the seed is treated or planted. Vibrance Flexi is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Syngenta representative for directions before applying Vibrance Flexi with inoculants.

The total application volume must be sufficient to provide desired level of coverage. Dilution is typically done with water or liquid inoculants.

Continuous agitation or mixing of the slurry mixture is necessary to prevent settling out of the solution. Clean out any unused product from the treater after treating or maintain constant agitation if the leftover slurry will be maintained overnight.

- Use an EPA-approved dye or colorant that imparts an unnatural color to the seed as required in 40 CFR 153.155(c).
- Allow seed to dry before bagging.

**SEED CONTAINER LABEL REQUIREMENTS**

The Federal Seed Act requires that containers of treated seeds shall be labeled with the following statements:

- This seed has been treated with Difenoconazole, Fludioxonil, Mefenoxam and Sedaxane fungicides.
- Do not use for feed, food, or oil purposes.

In addition, the following statements are required on containers of seeds treated with Vibrance Flexi:

- Ground Water Advisory: Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of label use. Fludioxonil has properties and characteristics associated with chemicals detected in groundwater. These chemicals may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.
- Store away from feeds and foodstuffs.
- Do not allow children, pets, or livestock to have access to treated seed.
- Wear long-sleeved shirt, long pants and chemical-resistant gloves when handling treated seed.
- Treated seed must be planted into the soil at a depth greater than 1/2 inch.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Dispose of all excess treated seed. Leftover treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements.
• Do not contaminate water bodies when disposing of planting equipment washwaters.

• Dispose of seed packaging in accordance with local requirements.

• Excess treated seed may be used for ethanol production only if:
  (1) By-products are not used for livestock feed, and
  (2) No measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.

• In the event of crop failure or harvest of a crop grown from seed treated with Vibrance Flexi, the field may be replanted immediately to the following crops:

<table>
<thead>
<tr>
<th>Plantback Interval Table</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Immediate Plantback</strong></td>
</tr>
</tbody>
</table>

| Cereals: Barley, Oats, Rye, Triticale, and Wheat |
| Cotton |
| Dried Shelled Pea and Bean |
| Crop Subgroup 6C |
| Potato |
| Rapeseed (Including Canola) |
| Crop Subgroup 20A |
| Soybean |
| Sugarbeet |
| Sweet Corn |

• For any other crops the minimum plantback interval is 30 days from the date the seeds treated with Vibrance Flexi were planted.

• Cereal forage must not be grazed until 30 days after planting.
**SEED TREATMENT**

When applied according to the *Vibrance Flexi Rate Table for Cereals*, Vibrance Flexi provides early season protection against the diseases listed in the table below.

**Vibrance Flexi Rate Table for Cereals**

<table>
<thead>
<tr>
<th>Crop</th>
<th>For Protection Against the Following Diseases</th>
<th>Use Rate (fl oz/100 lb)</th>
<th>Use Rate (g ai/100 kg)</th>
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</thead>
<tbody>
<tr>
<td><strong>CEREALS:</strong></td>
<td></td>
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<tr>
<td>Barley</td>
<td>Diseases Controlled:</td>
<td></td>
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<td></td>
<td>General Seed Rots(^1):</td>
<td></td>
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<td></td>
<td>Seedling Disease Complex:</td>
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<td></td>
<td>Damping-off, Seedling Blight, Seed Rot, and Root Rot caused by <em>Fusarium</em> species, <em>Pythium</em> species, and <em>Rhizoctonia</em> species</td>
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<tr>
<td>Oats</td>
<td></td>
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<td></td>
<td>Bunts(^2): Common, Dwarf, and Karnal</td>
<td>4.6 – 9.2</td>
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<tr>
<td>Rye</td>
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<td></td>
<td>Seed-borne Septoria species</td>
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<tr>
<td>Triticale</td>
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<td></td>
<td>Septoria Blotch(^3)</td>
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<tr>
<td>Wheat, Spring</td>
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<td></td>
<td>Smuts: Covered, False Loose, Flag, and Loose</td>
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<tr>
<td>Wheat, Winter</td>
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<td></td>
<td>Diseases Suppressed(^4):</td>
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<tr>
<td></td>
<td>Common Root Rot <em>(Cochliobolus</em> species)</td>
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<td></td>
<td>Crown and Foot Rot <em>(Fusarium</em> species)</td>
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<td></td>
<td>Take-All</td>
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</tbody>
</table>

\(^1\)Active on pathogens that cause general seed rots. These seed rots include those caused by saprophytic organisms such as *Penicillium* and *Aspergillus* species.  
\(^2\)Provides protection against both seed- and soil-borne bunts (common, dwarf).
3Provides early-season foliar disease protection for up to 6 weeks after planting at the 9.2 fl oz/100 lb rate. For full-season protection, apply a foliar fungicide according to label directions.

4Suppression means consistent protection at a level which is not optimal but is still of commercial benefit.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage**

Store in the original container and only in a cool, dry, secure place.

**Pesticide Disposal**

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA regional office for guidance.

**Container Handling [less than or equal to 5 gallons]**

**Non-refillable container.** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Container Handling [greater than 5 gallons – mini-bulk]**

**Non-refillable container.** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

*continued...*
STORAGE AND DISPOSAL (continued)

Container Handling [greater than 5 gallons – bulk]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.

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the SYNGENTA Logo and the PURPOSE ICON
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For non-emergency (e.g., current product information), call
Syngenta Crop Protection at 1-800-334-9481

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